

IAP15 Rec'd PCT/PTO 11 APR 2006

## IN THE UNITED STATES PATENT &amp; TRADEMARK OFFICE

Application Number : (unassigned)  
Applicant : KIM, Byung-Chan et al.  
Filed : April 11, 2006  
Tech Cntr/AU : (unassigned)  
Examiner : (unassigned)  
Entitled : PLANAR INVERTED F ANTENNA TAPERED TYPE PIFA  
WITH CORRUGATION

Attorney Reference : 123037-06045881  
Customer Number : 43569

**MAIL STOP PCT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

**INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97**

Sir:

Pursuant to 37 CFR §1.97 and 1.56, the attention of the U.S. Patent and Trademark Office is hereby directed to the following disclosures made herein, which include:

**REFERENCES AND RELEVANCY**

- ☒ Applicant(s) wish(es) to make of record the documents listed on the attached Form PTO-1449. Copies of the listed documents are attached, where required, as are any readily available full or partial English translations of any non-English language documents.
- ☐ Applicant(s) wish(es) to make of record the documents listed on the attached Form PTO-1449. The references cited herein were cited for consideration in the parent application, and, pursuant to 37 CFR 1.98(d), copies of the cited references can be found in the file of the parent application (*U.S. Serial No.* , *filed* ).
- ☒ Applicant(s) wish(es) to make of record the documents listed on the attached Form PTO-1449. The references cited herein were cited in the International Search Report issued for the corresponding International application, and copies of the International Search Report and the cited references are attached for the Examiner's consideration.
- ☐ Applicant(s) wish(es) to make of record the documents listed on the attached Form PTO-1449. The references cited herein were cited in a communication from a foreign or international patent office in a counterpart foreign or international application(s), and copies of both the relevant communication and the cited references, where required, are attached for the Examiner's consideration.

## CERTIFICATION

The undersigned certifies that, pursuant to 37 CFR §1.97(e)(1),

- ☐ each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign or international patent office in a counterpart foreign or international application not more than three months prior to the filing of this Statement.

## RELATED CASES

- ☐ Identified in the attached Appendix are related applications directed to related technical subject matter. Copies of the related applications, where required, are attached for the Examiner's consideration. *The identification of the related U.S. patent applications is not to be construed as a waiver of secrecy for those applications, now or upon issuance of the present application as a patent.*

## BASIS FOR CONSIDERATION

This Information Disclosure Statement is filed:

- ☒ within three months of the filing date of the application and/or before the mailing date of a first Official Action on the merits, and no fee is required [37 C.F.R. §1.97(b)].
- ☐ with the appropriate certification, and no fee is required [37 C.F.R. §1.97(e)(1)].
- ☐ after the mailing date of the first Official Action on the merits, but prior to the issuance of a Notice of Allowance, and the requisite fee is authorized herein for payment [37 C.F.R. §1.97(c)].
- ☐ after the mailing date of the Notice of Allowance, but prior to the payment of the issue fee, the requisite certification under 37 CFR §1.97(e)(1) is made herein, and the requisite fee is authorized herein for payment [37 C.F.R. §1.97(d)].
- ☐ with a Request for Continued Examination (RCE), and no fee is required [37 C.F.R. §1.97(b)(4)].

## FEE AUTHORIZATION

- ☒ Authorization is hereby given to charge any deficient fee(s) under 37 CFR §1.16 and §1.17 as necessary to ensure the consideration of this disclosure, or to credit any fee overpayments, to Deposit Account No. 503-121.
- ☐ Authorization is hereby given to charge the requisite fee of \$180 (Fee Code 1806) for submission of this Information Disclosure Statement to Deposit Account No. 503-121.

It is respectfully requested that this information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

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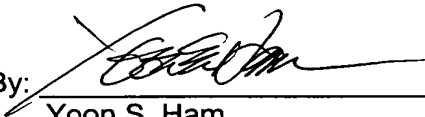
Information Disclosure Statement  
U.S. Serial No. New Application  
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The Examiner is further respectfully requested to return of a copy of the enclosed Form PTO-1449 with the Examiner's initials in the left column.

The examination and allowance of this Application is respectfully requested.

Respectfully Submitted,

MAYER BROWN ROWE & MAW LLP

By:   
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Date: April 11, 2006

Attachment(s): PTO Form 1449  
International Search Report  
Cited References

10/575347

FORM PTO-1449 (modified)

U.S. Department of Commerce  
U.S. Patent & Trademark Office**INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT**

Attorney Reference: 123037-06045881

Applicant: KIM, Byung-Chan et al.

Application Serial No. : New application

Filing Date: April 11, 2006

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Page 1 of 1

Examiner: unassigned

Group Art Unit: unassigned

**U.S. PATENT DOCUMENTS**

Examiner's Initials*		Document Number	Date MM/DD/YYYY	Name (Family Name of First Inventor)	Class	Sub Class	Filing Date (if appropriate)
	AR	2003/0038750	02/27/2003	Chen	H01Q	1/26	01/15/2002
	BR	6,717,548	04/06/2004	Chen	H01Q	1/24	08/02/2001
	CR	2003/0038749	02/27/2003	Chen	H01Q	1/26	11/13/2001
	DR	5,883,603	03/16/1999	Kim	H01Q	13/00	08/25/1997
	ER	6,667,716	12/23/2003	Chen	H01Q	1/38	12/23/2003
	FR						

**FOREIGN PATENT DOCUMENTS**

		Document Number	Date MM/DD/YYYY	Country	Translation Readily Available		English Abstract	
					Enclosed	No	Enclosed	No
	GR	1020030017128	03/03/2003	Republic of Korea		X	X	
	HR	1020040019487	03/06/2004	Republic of Korea		X	X	
	IR	2003-092510	03/28/2003	Japan		X	X	
	JR							
	KR							
	LR							
	MR							

OTHER (Including in this order Author, Title, Periodical Name, Date, Pertinent Pages, etc.)

	NR	Kathleen L. Virga; "Low-Profile Enhanced-Bandwidth PIFA Antennas for Wireless Communications Packaging"; IEEE Transactions on Microwave Theory and Techniques, Vol. 45, No. 10; October 1997; pp. 1879-1888.
	OR	Shackelford et al.; "Design of Small-Size Wide-Bandwidth Microstrip-Patch Antennas"; IEEE Antennas and Propagation Magazine, Vol. 45, No. 1; February 2003; pp. 75-83.
	PR	International Search Report dated January 26, 2005 for PCT/KR2004/002654.
	QR	
	RR	
	SR	

Examiner

Date Considered:

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.